

## BTEC Applied Science Unit 5 physics

What are the standard units of mass, length and time? - Correct answer-Kilograms, metres and seconds

What are the SI prefixes for  $10^3$ ,  $10^6$  and  $10^9$ ? - Correct answer-kilo, mega, giga

What are the SI prefixes for  $10^{-3}$ ,  $10^{-6}$  and  $10^{-9}$ ? - Correct answer-milli, micro, nano

What is work done? - Correct answer-The energy transferred in moving something

What is power? - Correct answer-the rate at which work is done

What happens to a gas when it is compressed? - Correct answer-Particles get closer together

Gas pressure increases

More collisions between particles and container

Temperature of gas rises

How do you calculate work done from a P-V graph? - Correct answer-The area under the graph

What is efficiency? - Correct answer-the percentage of the work input that becomes useful work output

What is thermal equilibrium? - Correct answer-when two objects have the same temperatures and net heat transfer is zero

What is the first law of thermodynamics? - Correct answer-The change in a system's internal energy is equal to the difference between heat added to the system from its surroundings and work done by the system on its surroundings

What are ideal gases? - Correct answer-All collisions are elastic

All motion is random

There are no forces between particles

What is absolute zero? - Correct answer-0 K

Particles have 0 kinetic energy

What is the second law of thermodynamics? - Correct answer-Heat will not flow from a colder body to a hotter one without an input of work. A natural process cannot fully be reversed.

# Past Papers Btec Applications In Science

**Judd E. Hollander**



## **Past Papers Btec Applications In Science:**

The book delves into Past Papers Btec Applications In Science. Past Papers Btec Applications In Science is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Past Papers Btec Applications In Science, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Past Papers Btec Applications In Science
    - Chapter 2: Essential Elements of Past Papers Btec Applications In Science
    - Chapter 3: Past Papers Btec Applications In Science in Everyday Life
    - Chapter 4: Past Papers Btec Applications In Science in Specific Contexts
    - Chapter 5: Conclusion
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